

Principles of Protecting the Open Research Environment

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Caveat:

These are PRINCIPLES, not mathematical theorems

Exceptions to the principles can always be found

1/17/01



Cyber PROTECTION

VS

Cyber Security



"The troops were sent to **protect** the village"



"The troops were sent to secure the village"



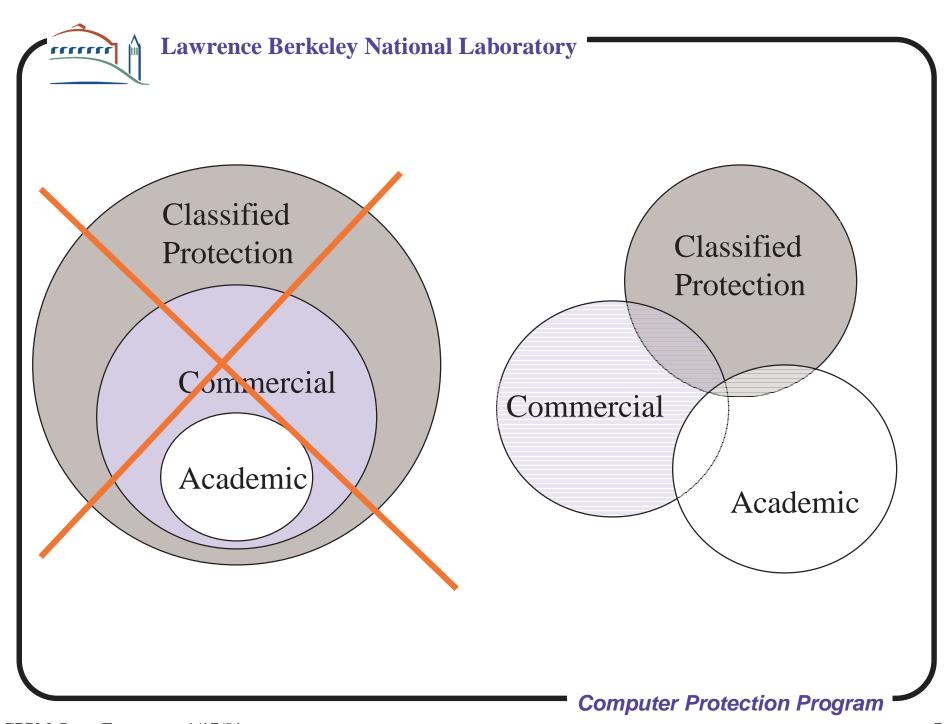
Different Environments .

require

Different Protective Measures

- •What is being protected?
- •What is the threat?

Computer Protection Program





RESOURCE Protection

VS

Information Protection



Lawrence Berkeley National Laboratory

Primary Protection Concern

Usenet newsgroups

Open Research

Banking

Weddon's Reseal

Resource Protection

Information Protection



OPEN by default,

restrict only as necessary

Computer Protection Program



Networks open the door to **Unprecedented Research** COLLABORATION

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Research explores New Uses of Computers

The research environment does not maintain computers to endlessly repeat transactions

Computer Protection Program



The Most Valuable asset of a research organization is the ability to create ideas

We need to protect The ABILITY to CREATE Ideas

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The Open Research Environment

- •Cyber **PROTECTION** vs Cyber Security
- •Open Environments are **DIFFERENT**, not a subset
- •**RESOURCE** Protection vs Information Protection
- •OPEN by default, restrict only as necessary
- •Networks promote **COLLABORATION**
- •Research Explores **NEW USES** of computers
- •We need to protect The ABILITY to CREATE Ideas

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